AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A catalyst comprising 0.1 to 5% by weight of vanadium, 1 to 12% by weight of ~~any~~ a metal chosen from Group 6A ~~family~~ metals and 0.1 to 10% by weight of Ag ~~in~~ on 70 to 99% by weight of titania wherein the catalyst is treated with acid-treatment ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

2. (Cancelled).

3. (Currently Amended) The catalyst according to ~~claim 2~~ claim 1, wherein the acid-treatment is conducted by impregnating said catalyst in 0.05 to 1M aqueous sulfuric acid solution and drying and calcinating the impregnated catalyst, or by passing by sulfur dioxide onto said catalyst ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

4. (Currently Amended) The catalyst according to claim 1, wherein said titania has any one crystal structure selected from a group consisting of amorphous type, anatase type and rutile type crystal structures ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

5. (Currently Amended) The catalyst according to claim 1, wherein said 6A metal is any one selected from a group consisting of molybdenum, tungsten and chromium ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

6. (Currently Amended) The catalyst according to claim 1, wherein said Ag is any one selected from a group consisting of silver nitrate, silver chloride, silver sulfate ~~or a~~ and combinations thereof ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

7. (Currently Amended) The catalyst according to claim 1, wherein said catalyst is supported by a structure selected from a group consisting of metallic panel, bag filter, ceramic filter, ceramic honeycomb and ceramic corrugate honeycomb ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

8. (Currently Amended) The catalyst according to claim 1, wherein said catalyst is molded to form any one selected from a group consisting of sphere, pellet and honeycomb ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

9. (Currently Amended) The catalyst according to ~~claim 2~~ claim 1, wherein said titania has any one crystal structure selected from a group consisting of amorphous type, anatase type and rutile type crystal structures ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

10. (Currently Amended) The catalyst according to claim 3, wherein said titania has any one crystal structure selected from a group consisting of amorphous type, anatase type and rutile type crystal structures ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

11. (Currently Amended) The catalyst according to ~~claim 2~~ claim 1, wherein said Group 6A metal is any one selected from a group consisting of molybdenum, tungsten and chromium ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

12. (Currently Amended) The catalyst according to claim 3, wherein said Group 6A metal is any one selected from a group consisting of molybdenum, tungsten and chromium ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

13. (Currently Amended) The catalyst according to ~~claim 2~~ claim 1, wherein said Ag is any one selected from a group consisting of silver nitrate, silver chloride, silver sulfate ~~or a~~ and combinations thereof useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously.

14. (Currently Amended) The catalyst according to claim 3, wherein said Ag is any one selected from a group consisting of silver nitrate, silver chloride, silver sulfate ~~or a~~ and combinations thereof ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen~~

~~oxides simultaneously~~.

15. (Currently Amended) The catalyst according to ~~claim 2~~ claim 1, wherein said catalyst is supported by a structure selected from a group consisting of metallic panel, bag filter, ceramic filter, ceramic honeycomb and ceramic corrugate honeycomb ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

16. (Currently Amended) The catalyst according to claim 3, wherein said catalyst is supported by a structure selected from a group consisting of metallic panel, bag filter, ceramic filter, ceramic honeycomb and ceramic corrugate honeycomb ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

17. (Currently Amended) The catalyst according to ~~claim 2~~ claim 1, wherein said catalyst is molded to form any one selected from a group consisting of sphere, pellet and honeycomb ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.

18. (Currently Amended) The catalyst according to claim 3, wherein said catalyst is molded to form any one selected from a group consisting of sphere, pellet and honeycomb ~~useful to remove the aromatic halogenated compounds comprising dioxin, carbon monoxide and nitrogen oxides simultaneously~~.